

# RESEARCH AND INNOVATION IN PUBLIC TRANSPORT

**László Sándor Kerényi**

Head of Strategy

BKK Centre for Budapest Transport

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BUDAPESTI  
KÖZLEKEDÉSI  
KÖZPONT

# WHAT IS THE PROBLEM?

*Public Transport = Mass Transit?*

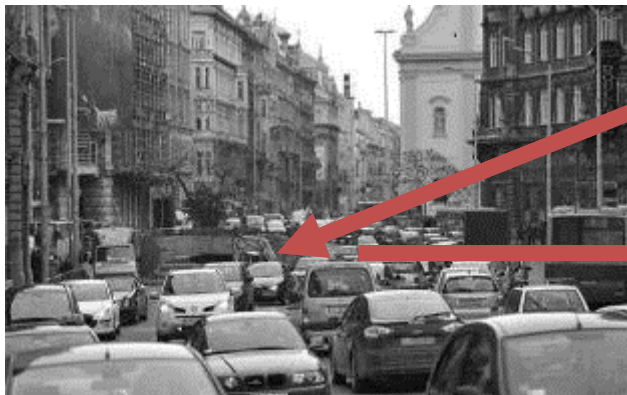
1901



1963



1990



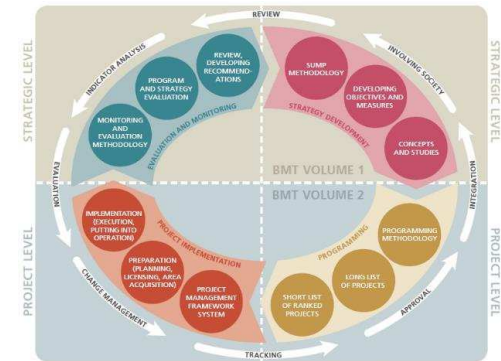
2015



# WHAT IS THE VISION?

## Strategic objectives

- **Livable** urban environment
- Safe, **predictable** and dynamic transport
- **Cooperative** regional connections



## WHAT TO DEVELOP?

*Priorities / areas of intervention*

1

### **MORE CONNECTIONS**

*Safe, high quality. integrated transport infrastructure*

2

### **ATTRACTIVE VEHICLES**

*Comfortable, environmental friendly vehicles and equipment*

3

### **BETTER SERVICES**

*Efficient, reliable traffic coordination and services*

4

### **EFFICIENT ORGANIZATION**

*Consequent regulation and governance, regional cooperation*

# SUMP – MORE/BETTER CONNECTIONS



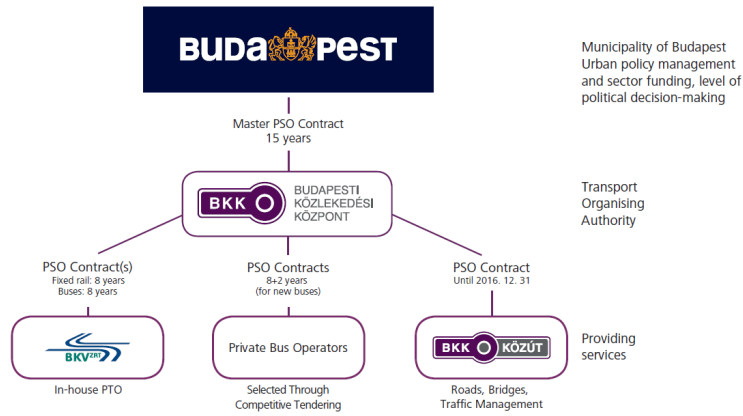
## SUMP – ATTRACTIVE VEHICLES



# SUMP – BETTER SERVICES



# SUMP – EFFICIENT ORGANIZATION / COOPERATION

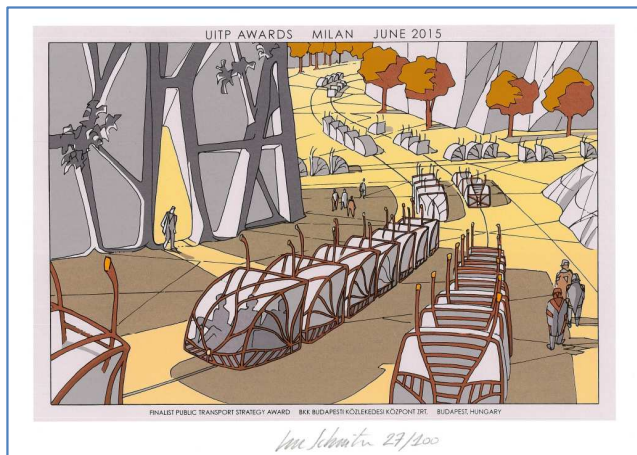




## HOW? – SEEK THE FUTURE

**Research & Innovation:** hot topics include **SUMP, participatory planning, MaaS, liveable city, e-mobility, Big Data, Open Data, intermodality...**

- **7 ongoing projects** (FLOW, **SMART-MR**, **SUMPs-UP**, EMPOWER, SUNRISE, **MaaS4EU**, Cities4People)
- **7 proposals submitted** in 2017 (PURE, **SMARTIFY**, MORE, BD4T **Big Data 4 Transport**, OPPORTUNITIES, INCLUSION, **VITALNODES**)
- **SUMP related activities rewarded** (Milan 2015, Shenzhen 2016, Brussels 2017)

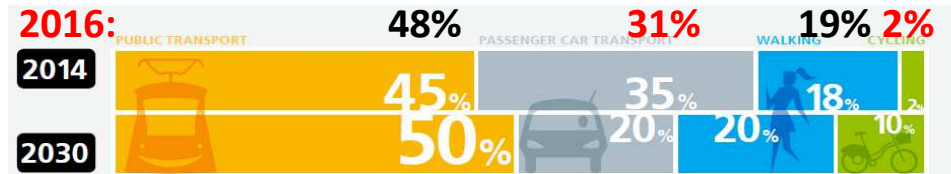


## HOW? – ACT INTEGRATED

*From development of silos – towards integrated solutions*



# HOW? – FORGET PUBLIC TRANSPORT AS WE KNOW IT



Urban Transport System											
Non-motorized				Motorized							
Private		Private or Shared		Public							
Non-track based					Track based						
Connected with roads					Separated from roads						
Pedestrian	Bicycle	Car / motorcycle	Taxi	Bus	Trolley bus	Tram	Suburban railway (*to be national)	Underground	Boat	Special rail	Heavy rail (*national)
Number of lines/routes				276	15	30	8	4			
Length of lines (km)				1 045,0	57,5	159,9	97,9	41,7			
Number of stops				4 013	274	634	133	103			
Fleet volume				1 581	164	610	98	454			
Number of operators				4	1	1	1	1			

The floor is open for discussion...



László Sándor Kerényi  
laszlo.kerenyi@bkk.hu

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